

PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2684 JAW

Applicants:

Seok-Jin HAM

Examiner: Nguyen, Tu X.

Serial No.:

09/366,299

Group Art Unit: 2684

Filed:

August 2, 1999

Docket: 678-318

For:

BILLING METHOD

Dated: February 10, 2006

IN ELECTRONIC SWITCH
IN A CELLULAR NETWORK

Mail Stop PETITION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PETITION TO WITHDRAW HOLDING OF ABANDONMENT UNDER 37 C.F.R. §1.181

Sir:

Applicant respectfully requests that the above-identified application be revived as a pending application, and hereby petitions that the abandonment set forth in the Notice of Abandonment mailed April 20, 2005 be withdrawn.

An Office Action was mailed on May 7, 2004 in connection with this application.

Applicant duly responded to the Office Action by filing a Response on August 6, 2004. In addition, at the Examiner's request, applicant resent a copy of the Response dated August 6, 2004 to the Examiner on March 16, 2005. Applicant respectfully submits herewith copies of the following documents:

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope, addressed to the: Mail Stop PETITION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 10, 2006

Dated: February 10, 2006

Thomas W. McNally

1. Notice of Abandonment dated April 20, 2005;

2. Response which bears a Certificate of Mailing Under 37 C.F.R. §1.8(a) dated

August 6, 2004;

3. Facsimile cover page and transmission showing that a copy of the Response

dated August 6, 2004 was resent to the Examiner on March 16, 2005; and

4. Interview Summary dated September 2, 2005.

Since Applicant properly filed the Response in a timely fashion which bears a Certificate of

Mailing signed by the Applicant's representative, Paul J. Farrell, as in an ordinary course of

business and resent a copy of the Response dated August 6, 2004 to the Examiner prior to the

issuance of the Notice of Abandonment and further in view of the Interview Summary dated

September 2, 2005, it is believed that the Notice of Abandonment was improperly issued and

should be withdrawn. It is respectfully requested that the application be revived as a pending

application.

It is Applicant's belief that no fee should be required since the Notice of Abandonment was

improperly issued through no fault of Applicant. If a fee is due, please charge said fee to Deposit

Account No. 04-1121. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Respectfully submitted,

aul J Farrell

Registration No. 33,494

Attorney for Applicants

DILWORTH & BARRESE, LLP

333 Earle Ovington Boulevard Uniondale, New York 11553

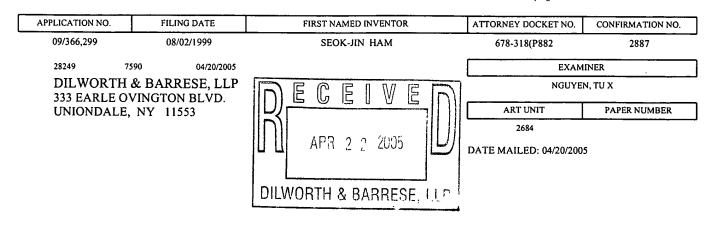
(516) 228-8484

PJF/JFG/vjs



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov



Please find below and/or attached an Office communication concerning this application or proceeding.

<i>⅋</i> .	Application No.	Applicant(s)		
ANotice of Abandonment	09/366,299	HAM, SEOK-JIN		
Notice of Abandonment	Examiner			
CONTRACTOR OF THE PROPERTY OF	Tu X Nguyen	2024		
The MAILING DATE of this communication		ith the correspondence address		
This application is abandoned in view of:		an die correspondence address		
Applicant's failure to timely file a proper reply to the (a)	ate of Mailing or Transmission date me of month(s)) which expi	d), which is after the expiration of red on		
(b) ☐ A proposed reply was received on, but i	t does not constitute a proper reply	under 37 CFR 1.113 (a) to the final reje		
(A proper reply under 37 CFR 1.113 to a final reapplication in condition for allowance; (2) a time Continued Examination (RCE) in compliance w	ely filed Notice of Appeal (with app	ly filed amendment which places the eal fee); or (3) a timely filed Request for		
(c) A reply was received on but it does not of final rejection. See 37 CFR 1.85(a) and 1.111.	constitute a proper reply, or a bona (See explanation in box 7 below).	fide attempt at a proper reply, to the nor		
(d) No reply has been received.	,			
Applicant's failure to timely pay the required issue from the mailing date of the Notice of Allowance (P	fee and publication fee, if applicabl	e, within the statutory period of three mo		
(a) The issue fee and publication fee, if applicable, which is after the expiration of the statu Allowance (PTOL-85).	le, was received on (with a tory period for payment of the issu	Certificate of Mailing or Transmission of the Certificate of Mailing or Transmission of the Certification fee) set in the Not		
(b) The submitted fee of \$ is insufficient. A t	palance of \$ is due.			
The issue fee required by 37 CFR 1.18 is \$	The publication fee, if require	ed by 37 CFR 1.18(d), is \$		
(c) \square The issue fee and publication fee, if applicable,	has not been received.			
 Applicant's failure to timely file corrected drawings a Allowability (PTO-37). 	as required by, and within the three	e-month period set in, the Notice of		
(a) ☐ Proposed corrected drawings were received on after the expiration of the period for reply.	(with a Certificate of Mailin	g or Transmission dated), which is		
(b) \(\sum \) No corrected drawings have been received.				
. The letter of express abandonment which is signed the applicants.	by the attorney or agent of record	, the assignee of the entire interest, or all		
. The letter of express abandonment which is signed 1.34(a)) upon the filing of a continuing application.	I by an attorney or agent (acting in	a representative capacity under 37 CFR		
. The decision by the Board of Patent Appeals and I of the decision has expired and there are no allower.	nterference rendered on and ed claims.	d because the period for seeking court re		
. ☑ The reason(s) below:		•		
Mr. Paul Farrell confirmed this case is abando	oned.			
TN	··•	as 1 10		
17		NoteMan		

3/16/05
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Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

U.S. Patent and Trademark Office
PTOL-1432 (Rev. 04-01)

Notice of Abandonment

Part of Paper No. 20

NAY MAUNG SUPERVISORY PATENT EXAMINE

APE (
O AS	Application No.	Applicant(s)				
FEB 1 3 2006 Uniterview Summary	09/366,299	HAM, SEOK-JIN				
	Examiner	Art Unit				
En a resulting	Tu X Nguyen	2684				
All participants (applicant, applicant's representative, I	PTO personnel):					
(1) <u>Tu X Nguyen</u> .	(3)					
(2) <u>Paul Farrell</u> .	(4)					
Date of Interview: 02 September 2005.		,				
Type: a)⊠ Telephonic b)☐ Video Conference c)☐ Personal [copy given to: 1)☐ applicar	nt 2)⊡ applicant's represe	entative]				
Exhibit shown or demonstration conducted: d) Ye If Yes, brief description:	s e)⊠ No.					
Claim(s) discussed: <u>n/a</u> .						
Identification of prior art discussed: <u>n/a</u> .						
Agreement with respect to the claims f)⊠ was reach	ned. g) was not reached	h)□ N/A.				
Substance of Interview including description of the ger reached, or any other comments: The Applicants representative did on the second that whether the Applicants representative did on the mistake from the Examiner.	esentative said that he never as sent on March. 2005, the r did not confirm the abandor	r made confirmation statement for Examiner cannot remember or nment, it could have been a				
(A fuller description, if necessary, and a copy of the an allowable, if available, must be attached. Also, where allowable is available, a summary thereof must be attached.	NO CODY of the amendments.	er agreed would render the claims that would render the claims				
THE FORMAL WRITTEN REPLY TO THE LAST OFFICINTERVIEW. (See MPEP Section 713.04). If a reply to GIVEN ONE MONTH FROM THIS INTERVIEW DATE INTERVIEW. See Summary of Record of Interview requirements.	o the last Office action has all TO File A STATEMENT OF	ready been filed, APPLICANT IS				
·						
Everine	Em	7- 9/1/5-				
Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.	Examiners	Examiner's signature, if required				

Attachment to a signed Office action. U.S. Patent and Trademark Office PTO-413 (Rev. 11- 02)

Interview Summary

Paper No. 9105.



ETER G. DILWORTH OCCO S. BARRESE PAUL J. PARRELL

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FACSIMILE TRANSMISSION

DATE: March 16, 2005

TO:

Examiner: T. X. Nguyen Fax No.: (703) 746-7762

FROM:

Douglas M. Owens, Esq. Dilworth & Barrese, LLP

Total Number of Pages (including this cover sheet): 8

RE:

Attorney Docket: 678-318 (P8824)

Seok-Jin HAM

GROUP ART UNIT: 2684

Applicant: Serial No.: Filed:

09/366,299 August 2, 1999

For:

EXAMINER: T. X. Nguyen

BILLING METHOD IN ELECTRONIC SWITCH IN A CELLULAR NETWORK

Examiner Nguyen:

Pursuant to your telephone request of today, enclosed is a copy of the Response that we filed under Certificate of Mailing dated August 6, 2004, in connection with the above-identified application.

If you have any questions, please do not hesitate to contact us.

Douglas M. Owens III

REPORT

CERTIFICATION OF FACSIMILE TRANSMISSION UNDER 37 C.F.R. 1.8(a)

I bereby certify that this correspondence is being facaimile transmitted to the United States Patent and Trademark Office, Commissioner for Patents. Alexandria VA 22312-1450, Atm.: Examiner T. X. Nguyen, Pax No.; (703) 746-7762 on the date shown below.

LYNN A. STOCKLIN
Type or Print Name of Person Signing Certification

March 16, 2005

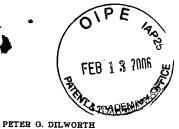
IN CASE OF INCOMPLETE OR INADEQUATE TRANSMISSION, PLEASE CALL (516) 228-8484

TX

RESULT

NAME:DILWORTH BARRESE TEL:5162284975 DATE:MAR.16'2005 03:05

SESSION	FUNCTION	NO.	DESTINATION STATION	DATE	TIME	PAGE	DURATION	MODE	RESULT
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ROCCO S. BARRESE PAUL J. FARRELL

OF COUNSEL ANN R. POKALSKY

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> TELEPHONE (518) 228-8484 FACSIMILE (510) 228-8516 e-mail: iplaw@dilworthbarrese.com

ADRIAN T. CALDERONE GEORGE M. KAPLAN MICHAEL J. MUSELLA WENDY A. GREENSEICH MICHAEL E. CARMEN DOUGLAS M. OWENS III JOHN F. GALLAGHER III JONGWON KIM* ELIZABETH M. STOVER VICTOR A. GROSSMAN SALVATORE J. MAIORINO THOMAS W. MCNALLY

REGISTERED PATENT AGENT ARTHUR D. DAWSON

*ADMITTED IN CONNECTICUT

FACSIMILE TRANSMISSION

DATE: March 16, 2005

TO:

Examiner: T. X. Nguyen

Fax No.: (703) 746-7762

FROM:

Douglas M. Owens, Esq.

Dilworth & Barrese, LLP

Total Number of Pages (including this cover sheet): 8

RE:

Attorney Docket: <u>678-318 (P8824)</u>

Applicant:

Seok-Jin HAM

GROUP ART UNIT: 2684

Serial No.:

09/366,299

August 2, 1999

EXAMINER: T. X. Nguyen

Filed: For:

BILLING METHOD IN ELECTRONIC

SWITCH IN A CELLULAR NETWORK

Examiner Nguyen:

Pursuant to your telephone request of today, enclosed is a copy of the Response that we filed under Certificate of Mailing dated August 6, 2004, in connection with the above-identified application.

If you have any questions, please do not hesitate to contact us.

Douglas M. Owens III

CERTIFICATION OF FACSIMILE TRANSMISSION UNDER 37 C.F.R. 1.8(a)

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Commissioner for Patents. Alexandria VA 22312-1450, Attn.: Examiner T. X. Nguyen, Fax No.: (703) 746-7762 on the date shown below.

LYNN A. STOCKLIN
Type or Print Name of Person Signing Certification

March 16, 2005

IN CASE OF INCOMPLETE OR INADEQUATE TRANSMISSION, PLEASE CALL (516) 228-8484



PATENT OFFICE DATE STAMP WILL ACKNOWLEDGE RECEIPT OF:

1. Response

2. Return Postcard

All submitted under Certificate of Mailing dated August 6, 2004.

Applicant:

Seok-Jin HAM

Serial No.:

09/366,299

Filed:

August 2, 1999

Group:

Art Unit 2684

Examiner:

T. X. Nguyen

For:

BILLING METHOD IN ELECTRONIC

SWITCH IN A CELLULAR NETWORK

Docket:

678-318 (P8824)

PJF/DMO/lah



Attorney Docket No.: 678-318 (P8824)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Seok-Jin HAM

GROUP ART UNIT: 2684

APPLICATION NO.:

09/366,299

EXAMINER: T.X. Nguyen

FILING DATE:

August 2, 1999

DATED: August 6, 2004

FOR:

BILLING METHOD IN ELECTRONIC SWITCH IN A CELLULAR NETWORK

Mail Stop Amendment

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

RESPONSE

Sir:

In response to the Office Action dated May 7, 2004, please consider the following remarks.

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope, addressed to the: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on August 6, 2004

Dated: August 6, 2004

Paul J. Parrell

REMARKS

Reconsideration of this application is respectfully requested.

This application has been reviewed in light of the Office Action dated May 7, 2004. Claims 1-5 and 8-26 are currently pending in the application. It is gratefully acknowledged that the Examiner has allowed Claims 11-22.

In the present Office Action, the Examiner has now rejected Claims 1-3, 8-10, and 23-26 under 35 U.S.C. § 102(b) as being anticipated by *Wittstein et al.* (U.S. 5,631,947), and Claims 4-5 under 35 U.S.C. § 103(a) as being unpatentable over *Wittstein* in view of *Smolik* (U.S. 6,381,455).

As Claims 1, 8, 23, and 24 are the remaining rejected independent claims of the application; the following analysis will focus primarily upon them.

As indicated above, independent Claims 1, 8, 23, and 24 have been rejected as being anticipated by *Wittstein*. More specifically, the Examiner is asserting that *Wittstein* teaches all the recitations of these claims. For the Examiner's convenience, Claims 1, 8, 23, and 24 are presented below and currently read as follows:

1. (Previously Presented) A method of billing service in an electronic switch in a cellular network system, comprising the steps of:

setting a time when a service initiation request or a service resumption request is generated as a service start time and initiating a call;

setting a service suspension request time as a service end time upon generation of a service suspension request by the system during the service and suspending the service;

sending billing data including the service start time and the service end time in the service suspended state, and determining whether a service resumption request is generated; and

ending the service when a service termination request is generated in the service suspended state.

8. (Previously Presented) A method of billing service in an electronic switch in a cellular network system comprising the steps of:

calculating a service suspended period whenever a service suspension occurs during a service and accumulating service suspended periods; and

constructing billing data, including a final service suspended period being the accumulated value of service suspended periods and sending the billing data to a billing processor, when the service ends, wherein service suspension periods are interruptions of service by the system.

23. (Previously Presented) A billing method in an electronic switch in a cellular network system, comprising the steps of:

counting the number of service suspension occurrences generated during a service, constructing billing data including the count value, and sending the billing data to a billing processor, via a call processor; and

producing a total service suspended period by multiplying the number of service suspension occurrences by an average service suspended period, subtracting the total service suspended period from an overall service period, and billing a subscriber for a resulting normal service period,

wherein service suspension occurrences are interruptions of service by the system.

24. (Previously Presented) A billing method in an electronic switch in a cellular network system, comprising the steps of:

calculating a service suspended period during a service in progress; and

billing a subscriber for a normal service period resulting from subtracting the calculated service time period from an overall service period,

wherein the service suspended period is an interruption of service by the system.

While *Wittstein* arguably teaches a method for crediting a bill for a dropped call, it is respectfully submitted that this method in no way anticipates the methods of the present invention as recited in Claims 1, 8, 23, and 24. The method in *Wittstein* as cited by the Examiner (column 18, line 50 to column 19, line 11) reads as follows:

Another problem with mobile telephones is that the calls can be "dropped" or interrupted by local interference or other causes. Normally, part of a minute of "air time" is charged for by the mobile phone system as if it were a full minute.

In some cellular phone systems, a time delay is provided (e.g., 10 seconds) between the time when the connection is broken and when the connection is dropped, so that if the user presses the "SEND" button on his phone, the company will give him credit for the last minute of the call. Then, the user must dial the call again.

The preferred telephone of the present invention does not have a "SEND" button. However, credit is given for the last minute of a dropped call by use of the answer detect circuit 97 (FIG. 4) to detect the hang-up of the called party, and using that detection to identify a completed call and differentiate it from a dropped call. When the hang-up signal is not detected, credit is given to the user for the last minute of the dropped call. Also, the computer 70 is programmed to develop a "SEND" signal and send it to the cellular system so that the lessor of the telephone (e.g., the hotel or car rental company) also gets credit for the last minute of the dropped call.

The answer detect circuit 97 is well-known, and in view of the disclosure above, the programming steps to implement the incoming call control and dropped call credit features are well within the skill of the art to provide.

As can be seen from the Examiner's cited section of Wittstein, Wittstein clearly does not recite all of the steps, if any, as recited in Claims 1, 8, 23, and 24. Wittstein merely credits a last

minute of a call after a call drop. There are no setting, calculating, or counting steps as recited in Claims 1, 8, 23, and 24 of the present application. For example, Claim 1 recites setting a time when a service initiation request or a service resumption request is generated as a service start time and initiating a call, and setting a service suspension request time as a service end time upon generation of a service suspension request by the system during the service and suspending the service; Claim 8 recites calculating a service suspended period whenever a service suspension occurs during a service and accumulating service suspended periods; Claim 23 recites counting the number of service suspension occurrences generated during a service, constructing billing data including the count value, and sending the billing data to a billing processor, via a call processor, and producing a total service suspended period by multiplying the number of service suspension occurrences by an average service suspended period, subtracting the total service suspended period from an overall service period, and billing a subscriber for a resulting normal service period; and Claim 24 recites calculating a service suspended period during a service in progress, and billing a subscriber for a normal service period resulting from subtracting the calculated service time period from an overall service period. It is respectfully submitted that Wittstein as cited by the Examiner, teaches none of these recitations. Therefore, it is respectfully submitted that the Examiner is incorrect.

Further, the Examiner has again rejected Claim 23 with the same argument as used with Claim 1. However, as presented in our previous response of February 23, 2004, Claim 23 does not even recite similar recitations as those in Claim 1. Therefore, it is respectfully submitted that the Examiner has failed to make a proper rejection of Claim 23.

Accordingly, it is respectfully submitted that independent Claims 1, 8, 11, 16, 21, 23, and 24 are in condition for allowance. Further, with independent Claims 1, 8, 11, 16, 21, 23, and 24 in condition for allowance, then at least because of their dependence upon these claims, respectively, it is respectfully submitted that dependent Claims 2-5, 9-10, 12-15, 17-20, 22, and 25-26 are also in condition for allowance.

Additionally, it is noted that Claims 6 and 7 have not been withdrawn from consideration, as indicated by the Examiner. Claims 6 and 7 were cancelled without prejudice in the amendment of November 27, 2002.

In view of the preceding remarks, it is respectfully submitted that all pending claims, namely Claims 1-5 and 8-26, are in condition for allowance. Should the Examiner believe that a telephone conference or personal interview would facilitate resolution of any remaining matters, the Examiner may contact Applicant's attorney at the number given below.

Respectfully submitted,

Paul J. Fatfell Reg. No. 33,494

Attorney for Applicant

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PJF/DMO/lah